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(19) **United States**(12) **Patent Application Publication**
LI et al.(10) **Pub. No.: US 2014/0248919 A1**(43) **Pub. Date: Sep. 4, 2014**(54) **PICOCELL RANGE EXPANSION
CONFIGURATION ON AUTHORIZED
SHARED ACCESS**(52) **U.S. Cl.**CPC *H04W 52/38* (2013.01)USPC **455/522**(71) Applicant: **NOKIA CORPORATION**, Espoo (FI)

(57)

ABSTRACT(72) Inventors: **Haitao LI**, Beijing (CN); **Kodo SHU**,
Beijing (CN); **Huiyue YI**, Shanghai
(CN); **Rui WANG**, Shanghai (CN);
Honglin HU, Shanghai (CN)

An apparatus, system, and method for a communication network that includes a picocell range expansion configuration on authorized shared access. A method may include determining, in a controller, at least one allowable maximal range expansion bias value for at least one picocell within a coverage area of a macrocell. The method may also include sending the determined allowable maximal range expansion bias value for the at least one picocell from the controller to the macrocell. A further method may include receiving at least one allowable maximal range expansion bias value for at least one picocell from a controller. The method may also include updating, by a macrocell, a range expansion bias value for each picocell within a macrocell based on the received allowable maximal range expansion bias value.

(73) Assignee: **NOKIA CORPORATION**, Espoo (FI)(21) Appl. No.: **13/781,885**(22) Filed: **Mar. 1, 2013****Publication Classification**(51) **Int. Cl.***H04W 52/38*

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